

# Sample Site Plans

- Sample Site Plans
  - Bacteriological
  - Disinfection By-Products
  - Lead and Copper






#### MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

SAMPLE SITING PLAN - BACTERIOLOGICAL
squed under authority of 1976 PA 399 and Administrative Rules, as amended. Administrative Rule R 325.10704c requires a water supply to monitor for total coliform bacteria according to a written sample siting plan subject to department review and revision. This form is provided as a convenience to the water supply for developing the plan.

#### Water Supply Information

Supply Name		WSSN
Address		Population Served
City, State, Zip	County	
Contacts – Water Supply		
/		( )
Name/Title	E-mail	Telephone
/	_	
Name/Title	E-mail	Telephone
/	_	_(_)
Name/Title	E-mail	Telephone
Contacts – EGLE and Other		
		()
EGLE Revised Total Coliform Rule Analyst Name	E-mail	Telephone
	_	()
EGLE Drinking Water District Analyst Name	E-mail	Telephone
		( )
EGLE Drinking Water District Engineer Name	E-mail	Telephone
Pollution Emergency Alerting System (Pf	EAS) Information	1-800-292-4706
Call PEAS number if unable to contact EGLE staff.		Telephone
		( )
Local Official	E-mail	Telephone
		( )
Local Official	E-mail	Telephone
		( )
Health Department	E-mail	Telephone
Public Notification		
Means of Public Notification		
		( )
Newspaper Name and City	E-mail	Telephone
Radio/Television Name and Address or City	E-mail	Telephone
This Cover Sheet Updated		
Date	_	
Date		

GLE					SAM	MPLE S	GITING PLAN - BACTERIOLOGICAL
Bacteriol and recor determine	logical Sampling Requireme	same time and pla	ace as every routine and repeat	t sample c	collected. Results from all i	routine	or a chlorinated system, measure
Dist. Site #	Routine Site Address	# of Samples per Month	Upstream Site Address*	Dov	wnstream Site Address*	(Not	Site Code of All Sources that Serve the Routine Site * required for surface water supplies)
1							
2							
3							
4							
5							
positive rout sample. Sup	tine sample result. With EGLE approv	al, source water colle notify their water supp	ction may be limited to those wells that plier within 24 hours of a positive routin	were in use	at any time within the 72-hour p	eriod pri	e all raw water sources (wells) for each ior to the collection of the routine positive ired to sample their source water.
Site Co			Location or Address	Comn	ments:		
				+			
				-			
				-			
All sources	s <u>MUST</u> be sampled if a routine distrib	oution sample is posit	ive for total coliform or E. coli.				
Laborato	ry Certified to Analyze Bact	eriological Sam	<b>ples</b> - for more labs certified in total co	oliform, visit h	nttp://www.michigan.gov/deqlab.		
Laborato	ry Name - Primary	Address, City, Sta	ite, Zip	E-mai	il	_	Telephone
	ry Name - Alternate	Address, City, Sta	ite, Zip	E-mai	il	_	Telephone
Plan Con	npleted/Updated and Review	ved					
Name an	d Signature		Date Completed	Samp	GLE Use Only ple site plan reviewed by EGLE. o revisions necessary.		EGLE Staff:
WSSN	Water Supply Name		County		evisions necessary as indicated. act EGLE with questions.		Date:



# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE

# MONITORING PLAN FOR COMMUNITY WATER SUPPLIES – DISINFECTANTS AND DISINFECTION BYPRODUCTS (DDBP)

Issued under authority of 1976 PA 399 and Administrative Rules, as amended. Administrative Rule R 325:10719i requires a water supply to develop a monitoring plan. This form is provided as a convenience to the water supply to develop the plan.

### Water Supply Information

Supply Name		WSSN		
Address	Population Served			
City, State, Zip	County			
Contacts – Water Supply				
		( )		
Name and Title	E-mail	Telephone		
		( )		
Name and Title	E-mail	Telephone		
		( )		
Name and Title	E-mail	Telephone		
Contacts – DEQ and Other				
		( )		
DEQ Drinking Water Analyst Name	E-mail	Telephone		
		( )		
DEQ Drinking Water District Engineer Name	E-mail	Telephone		
Pollution Emergency Alerting System Info Call PEAS number if unable to contact DEQ staff.	1-800-292-4706			
Call PEAS number if unable to contact DEQ staff.		Telephone		
		_(_)		
Local Official	E-mail	Telephone		
		()		
Local Official	E-mail	Telephone		
Health Department	E-mail	Telephone		
Public Notification				
Means of Public Notification				
Newspaper Name and City	E-mail	Telephone		
		()		
Radio/Television Name and Address or City	E-mail	Telephone		
Laboratory				
		_(_)_		
Primary Laboratory Name	E-mail	Telephone		
Primary Lab Address, City, State, Zip		/ \		
Alternate Laboratory Name	E-mail	Telephone		
Alternate Lab Address, City, State, Zip				
Alternate Lab Address, City, State, Zip				

Measure (	DDBPR Monitoring Plan for WS		ntinued)					
Measure Chlorine Residual (under normal operating conditions)  Check if this supply serves water disinfected with chlorine or chloramines. The residual disinfectant level must be measured at the <a href="mailto:same time">same time</a> and the <a href="mailto:same location">same location</a> as each total coliform compliance sample (includes all routine AND repeat total coliform samples).								
Monitor Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5)  TTHM and HAA5 Sample Sites and Monitoring Frequency								
Site Code <sup>1</sup> (DBP1, DBP2, etc)	Sample Site Address	Rationale for Selection	ROUTINE Monitoring Sample Every 3rd Month 1 Year	REDUCED Monitoring <sup>2</sup> Sample Every 3rd Month 1 Year 3rd Year				
DBP			☐ TTHM ☐ HAA5 ☐ TTHM ☐ HAA5	TTHM HAA5 TTHM HAA5				
DBP			TTHM HAA5	TTHM HAA5				
DBP			☐ HAA5 ☐ TTHM ☐ HAA5	☐ HAA5 ☐ TTHM ☐ HAA5				
DBP			☐ TTHM ☐ HAA5	☐ TTHM ☐ HAA5				
<ul> <li>Each Site Code is unique to a Sample Site Address. Contact the DEQ if a sample site is no longer available. The DEQ will help you select a new Sample Site Address and establish a new Site Code.</li> <li>Reduced monitoring can only be established after certain criteria are met. Complete this column only after consultation with the DEQ. Monitor according to the routine schedule unless a reduced schedule has been approved by the DEQ.</li> </ul>								
Peak historic month: (month of highest byproduct formation, based on past results)  When monitoring:								
<ul> <li>Every 1 year or every 3rd year, monitor during the peak historic month.</li> <li>Every 3rd month, check the group below that contains the peak historic month. Monitor during each of the months in the group.</li></ul>								
Monitor Bromate (under normal operating conditions)								
Check if this supply adds ozone. This supply must collect 1 sample per month for bromate at the entry point (plant tap) of each treatment plant that uses ozone. The DEQ may reduce frequency from monthly to quarterly if the bromate running annual average (RAA) is <= 0.0025 mg/L (milligrams per liter) (2.5 parts per billion [ppb]).								
Schematic (optional)								
Check if a schematic is attached showing the sample sites in this monitoring plan.								



# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY DRINKING WATER AND MUNICIPAL ASSISTANCE DIVISION

### SAMPLING PLAN – LEAD AND COPPER

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, and Administrative Rules, as amended. Administrative Rule R 325.10710a requires a water supply to monitor for lead and copper according to a pool of targeted sampling sites in accordance with designated site selection criteria. Complete and submit this form to MDEQ.

#### Water Supply Information Supply Name WSSN Address County City, State, Zip Population Served Contacts – Water Supply Name and Title E-mail Name and Title E-mail Name and Title E-mail Telephone Contacts – DEQ and Other Ms. Jeni Bolt Mr. Brandon Onan, P.E., Ms. Heather Jackson Lead and Copper Rule Specialist Lead and Copper Rule Analyst Corrosion Control Engineer (517) 331-5161; boltj@michigan.gov (517) 242-3997; jacksonh@michigan.gov (616) 307-6736; onanb@michigan.gov MDEQ Lead and Copper Contacts MDEQ Drinking Water District Analyst Name E-mail MDEQ Drinking Water District Engineer Name E-mail Pollution Emergency Alerting System Information (PEAS) (800) 292-4706 Call PEAS number if unable to contact MDEQ staff. Telephone Local Official E-mail Local Official E-mail Health Department E-mail Public Advisory, Education, and Notification Means of Distributing Information to the Public Newspaper Name and City E-mail Telephone Radio/Television Name and Address or City E-mail Telephone Date Cover Sheet Updated

#### MICHIGAN COMMUNITY WATER SUPPLY LEAD AND COPPER TAP SAMPLING POOL

### >>> REVIEW INSTRUCTIONS ON PAGES 4 AND 5 BEFORE COMPLETING FORM BELOW <<<

WSSN	: Supply Name:					Page	_ of
Standard Number of Sites Required: Reduced Number of					of Sites Re	quired:	
Site No.	Address	Tier Level	Category	Structure Type	Service Line Material	Interior Plumbing Material	Site Validation Method
00	Ex: 0000 Any Street - Any Town, MI	1	Α	SFR	L	С	Visual
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
Use next page to record additional sampling sites.							
Pian (	Plan Completed By For MDEQ Use Only						
Name					☐ Revisio	<ul> <li>□ Plan Accepted</li> <li>□ Revisions necessary as indicated</li> </ul>	
T	itle		Date		Staff:	Date:	

# Sampling

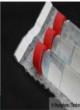
- Partial Chemistry
  - Hold Times/Thermal Preservation
- Lead/Copper
  - Units (ppb/ppm)
  - Lab #
  - Preservation
  - Bottles (Size/Type/1<sup>st</sup> and 5<sup>th</sup> L)
  - Sample Site Plans



EGLE

## Sampling

- Radiological
  - Certified Labs
  - Tritium Certified Labs
- Disinfection By-Products (HAA5/TTHM)
  - Thermal/Chemical Preservation
  - Sample Site Plans (Specific Address)
- VOC/SOC
  - Thermal/Chemical Preservation
  - Head Space



## Sampling

- Water Quality Parameters
  - Chloride/Sulfate (New)
  - Silica (Only if Using for Corrosion Control)
  - Temp/pH
- Bacteriological
  - Hold Times
  - Sample Site Plans (Specific Address)
  - Type of Sample
  - Notification of Positives



FOLE